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VHT SPECIAL 6 *ULTRA*

6-Watt Vacuum Tube High-Gain Guitar Amplifier

User Manual

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IMPORTANT SAFETY INSTRUCTIONS

1) Read these instructions.
2) Keep these instructions.
3) Heed all warnings.
4) Follow all instructions.
5) Do not use this amplifier near water.
6) Clean only with dry cloth.
7) Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9) Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11) Only use attachments/accessories specified by the manufacturer.
12) Unplug this amplifier during lightning storms or when unused for long periods of time.
13) Refer all servicing to qualified service personnel. Servicing is required when the amplifier has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the amplifier, the amplifier has been exposed to rain or moisture, does not operate normally, or has been dropped.
14) The amplifier shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the amplifier.
15) This amplifier shall be connected to a mains socket outlet with a protective earthing connection.
16) The power/mains plug or amplifier coupler is the disconnect device which must remain readily operable.
WARNING To reduce the risk of fire or electric shock, do not expose this amplifier to rain or moisture.

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VHT SPECIAL 6 *ULTRA*

MORE GAIN! MORE FEATURES! MORE FUN!

With its additional preamp gain stage, amazing power-attenuating Watts control, tube-driven effects loop, Line Out jack, 11-position Depth control and 3-position Texture switch, the new high-gain Special 6 Ultra rockets the popular Special platform to the next level.

The Special 6 Ultra's added gain stage provides plenty of overdrive for searing leads, bone-crushing crunch, and gristly grind, while its amazingly effective Watts control can reduce the volume to whisper-quiet bedroom practice levels — while maintaining the same overdriven tone, texture and dynamic feel. We think you'll agree — it's truly amazing.

The Special 6 Ultra features the same unique Volume and Tone controls as the original Special 6, the same footswitchable Boost, High/Low Power switch, and a similarly mod-friendly eyelet board.

The Special 6 Ultra also features a unique 11-position Depth control that fine-tunes the low-frequency depth and extension. Similarly, the 3-position Texture switch fine-tunes the high-frequency extension, harmonic content and texture. Inspired by vintage studio EQs like the legendary Pultec EQP-1A, etc., these innovative tone-sculpting features allow you to precisely fine-tune the amp's output stage frequency response and character to perfectly suit a wide range of guitars, pickups, speakers, and musical styles — like a built-in post-production Pultec mastering EQ.

The Special 6 Ultra Combo and Head share the same chassis, circuit design, and component layout.

VHT SPECIAL 6 *ULTRA* FEATURES

6 Watts Maximum Output Power
One 6V6 Output Tube
Two 12AX7 Preamp Tubes
Ultra (high gain) and Clean Inputs
Ultra (high gain) Control
Volume and Tone Controls
Footswitchable Boost Mode
Tube-Driven Effects Loop
Tube-Driven Preamp Line Out
11-Position Depth Control
3-Position Texture Switch
High/Low Power Switch
Watts Control
12” VHT ChromeBack Speaker, 60-watt, 16 ohm (Combo Only)
Switchable 4, 8, or 16 Ohm Speaker Output
Mod-friendly Eyelet-Type Board
Hand-Wired in China

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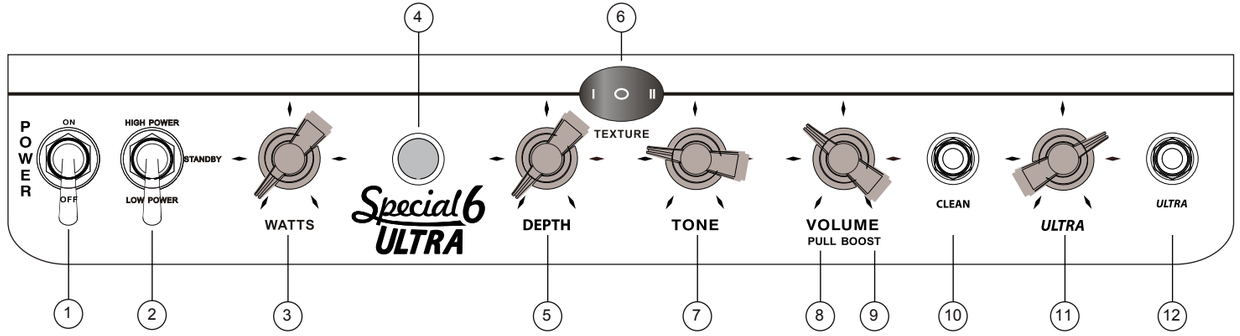
CONTROL PANEL FEATURES



1. Power Switch: This switch turns the amplifier on or off.
2. High/Low Power and Standby switch: The Low-Power (triode mode) setting reduces the amplifier’s maximum output power to approximately one-half of the Full Power (pentode mode) setting. Low-Power mode produces a richer and smoother tone, with earlier breakup than High-Power mode. The middle position is Standby mode.
3. Watts Control: The Watts control adjusts the output tube’s operating voltage and maximum output power. Maximum Output power ranges from ½ watt (fully counterclockwise) to 6 watts (fully clockwise).
4. Jewel Light: This light will be illuminated when the Power switch is in the On position; the jewel light will be off when the Power switch is in the Off position.

CONTROL PANEL FEATURES CONTINUED

5. Depth Control: This 11-position rotary switch selects the output tube's low-frequency roll-off point. Set fully clockwise for the deepest low-frequency extension. Lower settings (counterclockwise) expose more midrange texture and detail; the lowest settings emphasize more presence and bite.
6. Texture Switch: This 3-position rocker switch selects the output's high-frequency roll-off point. The middle position provides maximum top-end extension and the most harmonically complex texture; the left position provides subtle high-frequency roll-off for a slightly smoother texture; the right position rolls-off more high frequencies for the smoothest texture.
7. Tone Control: This control adjusts the balance of the high and low frequencies.
8. Volume Control: Turning this knob clockwise increases the preamp drive and overall sound level. The Volume control is functional when using either Clean or Ultra inputs.
9. Pull Boost: Pull this knob to partially bypass the internal tone shaping/voicing circuitry, which boosts the preamp gain and increases the midrange emphasis. This feature can also be accessed by the footswitch.
NOTE: THE BOOST FOOTSWITCH WILL ONLY FUNCTION WHEN THE VOLUME KNOB IS IN THE PULLED POSITION.
10. Clean Input Jack: Use this input when cleaner lower-gain tones are desired. (When using the Clean input, turn the Ultra knob off to reduce preamp noise.)
11. Ultra Control: This control adjusts the level of the extra gain (the Ultra control only functions when using the Ultra input).
12. Ultra Input Jack: This input engages the additional Ultra gain stage for maximum overdrive.

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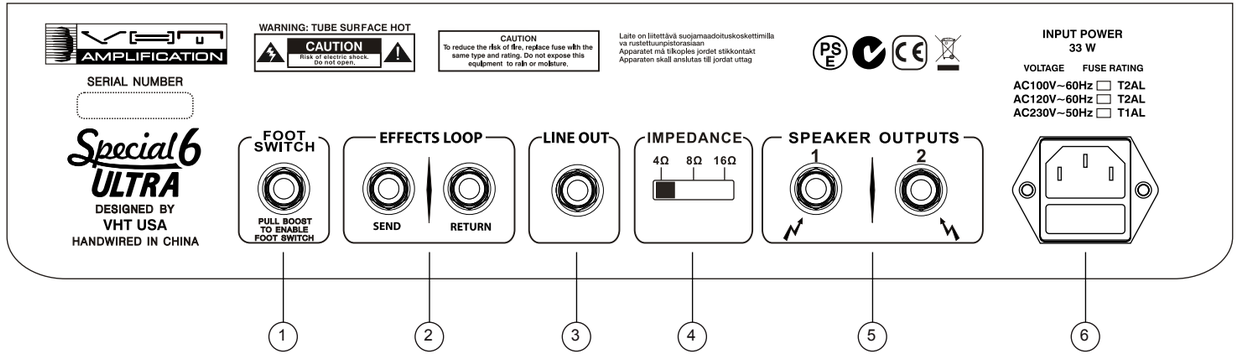
REAR PANEL FEATURES



1. Footswitch Jack: Plug the Boost footswitch into this jack.
NOTE: THE BOOST FOOTSWITCH WILL ONLY FUNCTION WHEN THE VOLUME KNOB IS IN THE PULLED POSITION.
s2. Effects Loop Send and Return Jacks: The post-preamp Effects Loop can accommodate a wide range of effects. The send level is dependent on the preamp gain. High preamp gain levels may overdrive some sensitive guitar-level effects pedals.
3. Line Out Jack: The preamp Line Out is in parallel with the Effects Loop Send and Return jacks, it can be used to send a tube-buffered low-impedance (unbalanced) signal to other equipment such as mixing consoles or other amplifiers. Multiple Special 6 Ultra amplifiers can be linked by connecting the Line Out jack to the Effects Return of the second amplifier. Several Special 6 Ultras can be linked in this manner, with the first amplifier's preamp serving as the master preamp for all additional amplifiers.

REAR PANEL FEATURES CONTINUED

4. Impedance Selector: This 3-position slide switch selects the appropriate output impedance to match your speaker cabinet's impedance.
5. Speaker Output Jacks: These two jacks are wired in parallel. The Special 6 Ultra combo has a 16-ohm speaker that is connected to the internal speaker jack. The combo's speaker remains connected when using the external Speaker Output jacks. When using the combo with an additional speaker cabinet, switch the Impedance selector to 8 ohms.
6. Power IEC Receptacle: Use the included power cord with this unit in accordance with the AC line voltage and frequency ratings listed on this manual and rear panel of this amplifier. For lowest noise and safest operation, always provide the amplifier with proper AC grounding.

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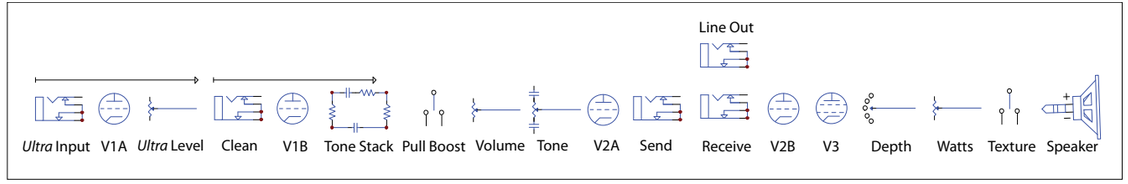
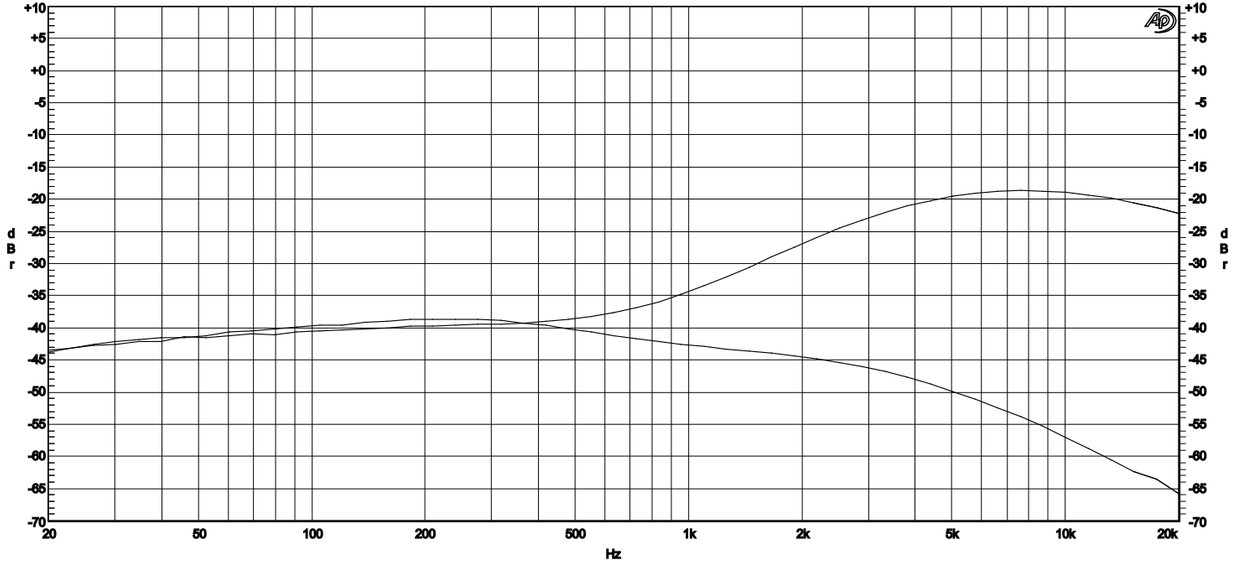
BLOCK DIAGRAM



TONE CONTROL - CLEAN INPUT (NO BOOST)



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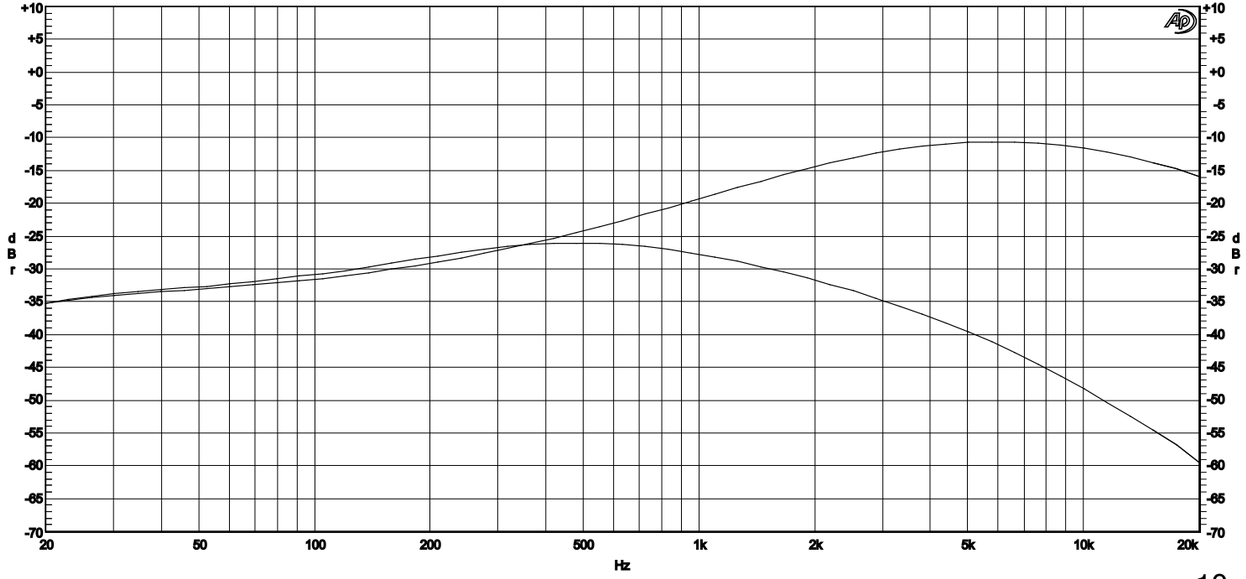
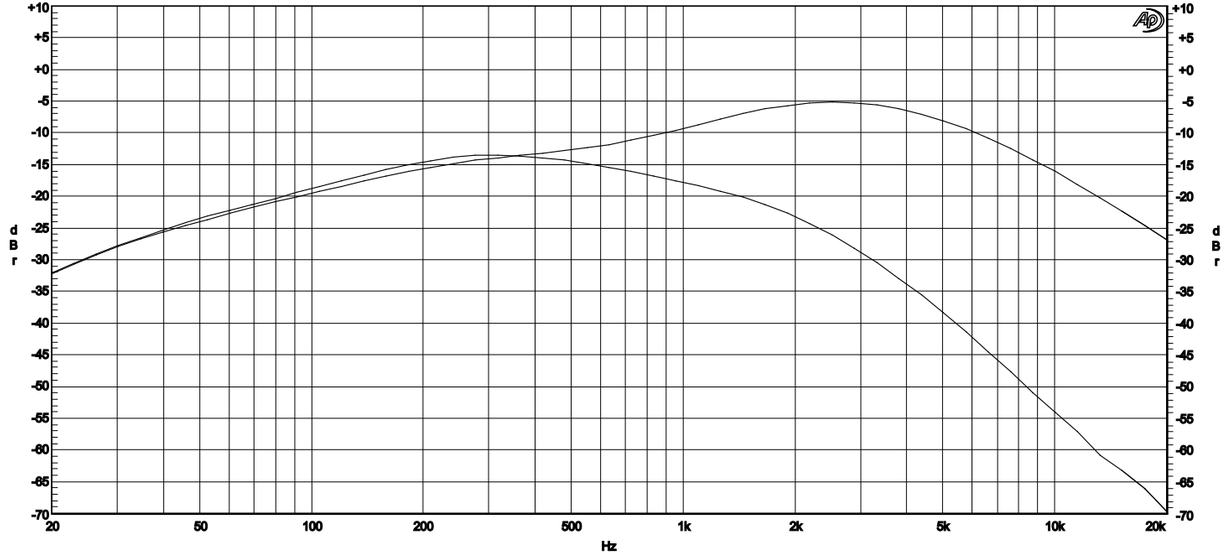
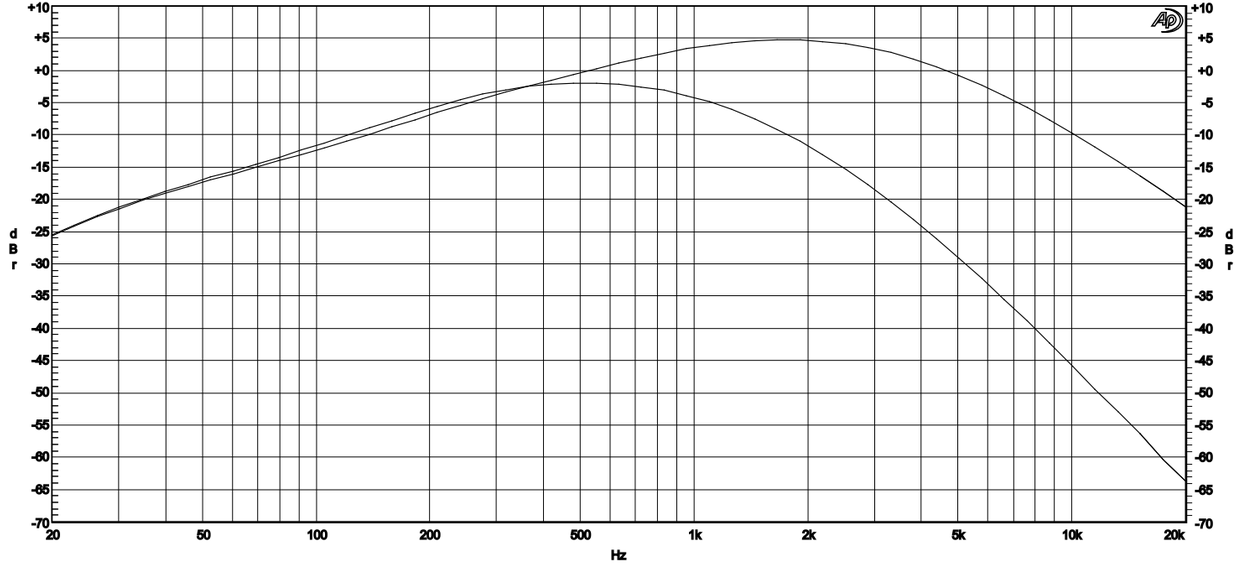
TONE CONTROL - CLEAN INPUT (PULL BOOST)



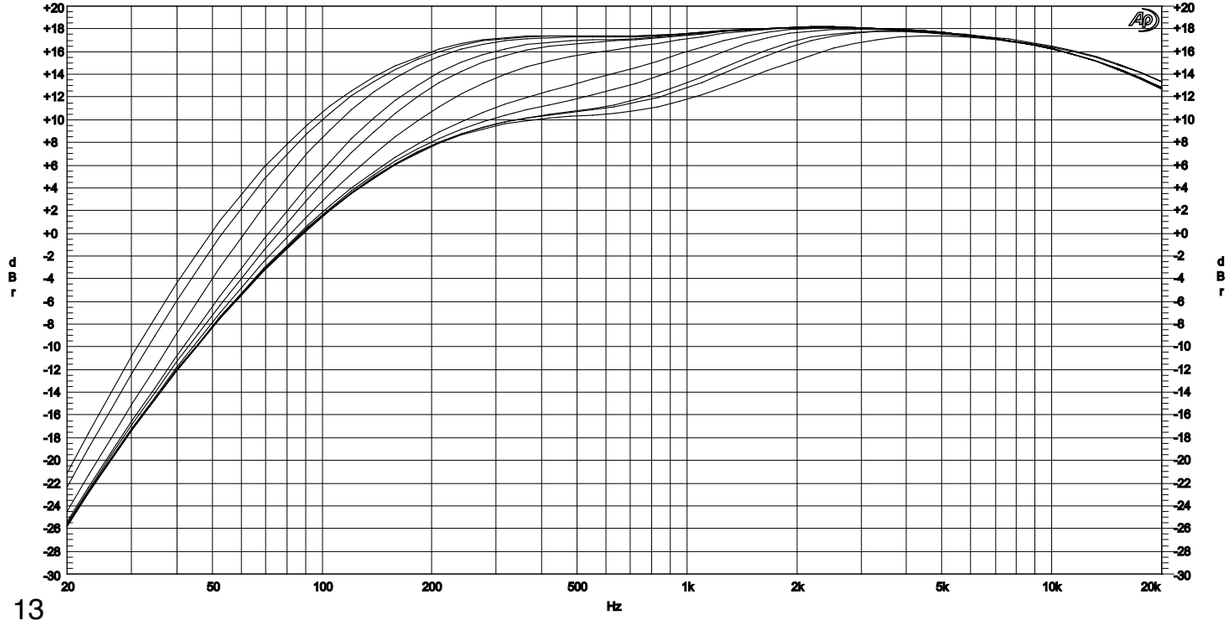
TONE CONTROL - ULTRA INPUT (NO BOOST)



TONE CONTROL - ULTRA INPUT (PULL BOOST)



DEPTH CONTROL



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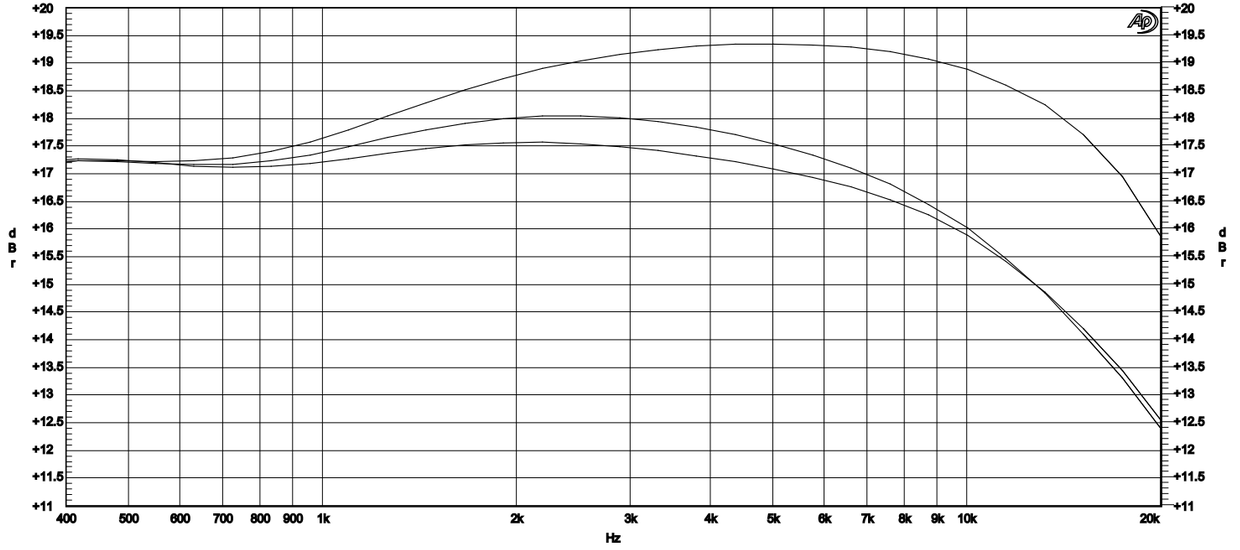
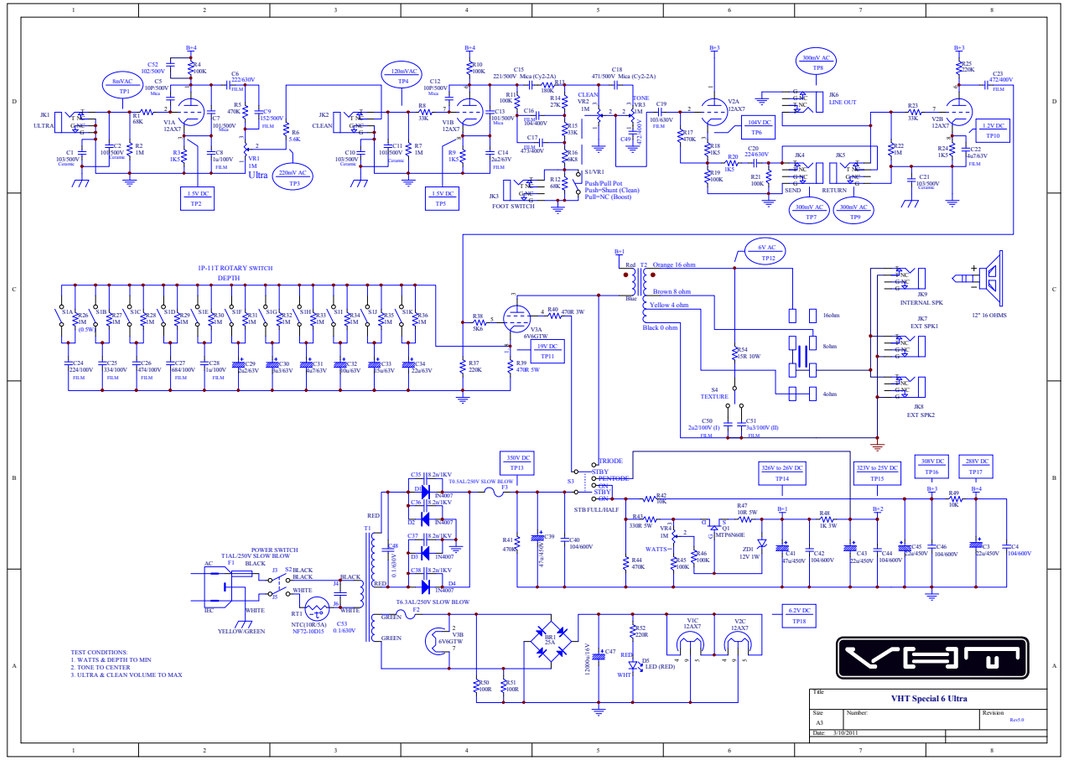
TEXTURE CONTROL





TECHNICAL SPECIFICATIONS

Name/Model:	VHT Special 6 Ultra 6-Watt High Gain Vacuum Tube Guitar Amplifier / VHT Special 6 Ultra
Power Requirements & Consumption:	100/115VAC, 50/60Hz; 120VAC, 60Hz; 220VAC/230VAC240/VAC, 50/60Hz
Maximum Output Power:	6 watts
Speaker (combo only):	One 12” VHT ChromeBack (60-watts, 16 ohms)
Amp Type:	Hand-wired high-gain single-ended tube
Tubes:	Two 12AX7; One 6V6
Controls:	Ultra, Volume (with Pull-Boost), Tone, Texture, Depth, Watts, High/Low Power
Cabinet:	Finger jointed birch plywood
Cosmetics:	Black vinyl and black grille cloth
Dimensions (H x W x D):	Combo: 18” x 19.5” x 10.5” (457mm x 495mm x 267mm) Head: 10.25” x 19.5” x 9.75” (257mm x 495mm x 250mm)
Net Weight:	Head: 26.5 lbs. (12 kg) Combo: 37.5 lbs. (17 kg)

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Limited Warranty Information

This amplifier is warranted, to the original Purchaser, to be free from defects in material and workmanship for a period of five (5) years, excluding the tubes and speaker, which are warranted for ninety (90) days, from the original date of purchase.

The manufacturer shall, at its option, either repair or replace the defective product if the product is returned to the original place of purchase. If any product returned is not defective within this warranty, the manufacturer shall so advise the Purchaser and thereafter shall dispose of said product in accordance with the Purchaser's instructions and at the Purchaser's cost. This warranty is not transferable by the Purchaser.

The warranty shall not apply to wearable parts, these items include, but are not limited to, amplifier knobs, feet, and handles.

The warranty shall not apply, if the product has been misused or damaged as a result of neglect, abuse, alteration, improper handling, unauthorized repair or modification, accident or causes external to the product, such as, but not limited to, excessive heat or humidity.

The manufacturer's sole and exclusive maximum liability for any claim by the Purchaser shall not exceed the wholesale value of the product. In no event shall the manufacturer be liable for any indirect, incidental, collateral, exemplary, or consequential damages of losses arising out of the Purchaser's purchase of the product. The above limitations may not apply in some states (U.S.), international regions or countries.

VHT AMPLIFICATION

HAND-WIRED IN CHINA